

Application No. 09/869,884
Submission with RCE filed 03/07/2005

Attorney's Docket No. 0119-067

LISTING OF CLAIMS

This Listing replaces all previous listings of claims.

1. (currently amended) A method of interworking between a mobile terminal and a local service in which information is conveyed between the local service and the mobile terminal over a local wireless communication channel, the method comprising:

broadcasting from the local service, over the local wireless communication channel into a region, service notification messages; and

conducting a mobile terminal identification process between ~~[[a]]~~ the mobile terminal and the local service over the local wireless communication channel, said process only proceeding if the mobile terminal is present within a localised region which is a sub region of the region ~~[[over]]~~ into which said service notification messages are broadcast;

wherein the identification process proceeds using a directional antenna or receiver provided at the desired local service, a transmission/reception area of the directional antenna or receiver determining the localised region.

2. (original) A method according to claim 1, wherein the mobile terminal is a cellular radio telephone or smart phone which communicates with a cellular radio network using a communications protocol distinct from the protocol used over said local communication channel.

3. (currently amended) A method according to claim 1, wherein the service notification messages are broadcast from the local service via a broadcast antenna and ~~the identification phase is carried out using a directional antenna or receiver provided at the local service~~ directional antenna or receiver is not used for broadcasting service notification messages.

4. (currently amended) Apparatus for interworking between a mobile terminal and a local service in which information is conveyed between the local service and the mobile terminal over a local wireless communication channel, the apparatus comprising:

a local system having transmitting means for broadcasting from the local service, over the local wireless communication channel into a region, service notification messages; and

at least one mobile terminal arranged in use to conduct an identification process with the local service over the local wireless communication channel, said process only

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proceeding if the mobile terminal is present within a localised region which is a sub-region of the region ~~over~~ into which said service notification messages are broadcast; ~~wherein the local system comprises a directional radio transmitter or receiver whose transmission/reception area determines the localised region.~~

5. (currently amended) Apparatus according to claim 4, wherein the local wireless communication channel is a radio channel, ~~and the local system comprises a directional radio transmitter or receiver whose transmission/reception area defines said localised region~~ the service notification messages are broadcast via a broadcast antenna, and the directional antenna or receiver is not used for broadcasting service notification messages.

6. (currently amended) A local service for interworking with a mobile terminal wherein information is conveyed between the local service and the mobile terminal over a local wireless communication channel, the local service comprising:

transmitting means for broadcasting, over the local wireless communication channel into a region, service notification messages;

a directional transmitter or receiver for defining a localised transmission/reception region which is a sub-region of the region ~~over~~ into which said notification messages are broadcast; and

processing means for conduction of an identification process with ~~[[a]]~~ the mobile terminal over the local wireless communication channel and using said directional transmitter or receiver, said process only proceeding if the mobile terminal is present within the localised region.

7. (new) The method of claim 1, wherein each of a plurality of local services has a respective localised region that is a respective sub region of the region into which service notification messages are broadcast from the plurality of local services.

8. (new) The method of claim 3, further comprising the step of switching from broadcasting service notification messages over the broadcast antenna to conducting the mobile terminal identification process using the directional antenna or receiver.

9. (new) The apparatus of claim 4, each of a plurality of local services has a respective localised region that is a respective sub region of the region into which service notification messages are broadcast from the plurality of local services.

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10. (new) The apparatus of claim 5, wherein the local system switches from broadcasting service notification messages over the broadcast antenna to conducting the mobile terminal identification process using the directional antenna or receiver.

11. (new) The local service of claim 6, wherein the local service switches from broadcasting service notification messages over the transmitting means to using the directional transmitter or receiver in conduction of the mobile terminal identification process.

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